

**KP GRIDPAK® Antennas – F-Series Unpressurized Single Polarized**

Type Number	Diameter ft (m)	Antenna Input	Antenna Color	Radome	Gain, dBi			Beamwidth Degrees	Cross Pol. Disc., dB	F/B Ratio dB	VSWR Max. (R.L., dB)
					Low	Mid-Band	Top				
KP3F-23-NWM	3 (0.9)	N Female	Unpainted	None	24.7	25.1	25.3	8.1	38	30	1.20 (20.8)
KP3F-23-FWM	3 (0.9)	F Flange, Female	Unpainted	None	24.7	25.1	25.3	8.1	38	30	1.20 (20.8)
KP3F-23-EWM	3 (0.9)	7/8" EIA Flange	Unpainted	None	24.7	25.1	25.3	8.1	38	30	1.20 (20.8)
KP4F-23-NWM	4 (1.2)	N Female	Unpainted	None	27.2	27.5	27.8	6.9	30	30	1.20 (20.8)
KP4F-23-FWM	4 (1.2)	F Flange, Female	Unpainted	None	27.2	27.5	27.8	6.9	30	30	1.20 (20.8)
KP4F-23-EWM	4 (1.2)	7/8" EIA Flange	Unpainted	None	27.2	27.5	27.8	6.9	30	30	1.20 (20.8)
KP6F-23-NWM	6 (2.0)	N Female	Unpainted	None	31.0	31.3	31.6	4.5	30	36	1.10 (26.4)
KP6F-23-FWM	6 (2.0)	F Flange, Female	Unpainted	None	31.0	31.3	31.6	4.5	30	36	1.10 (26.4)
KP6F-23-EWM	6 (2.0)	7/8" EIA Flange	Unpainted	None	31.0	31.3	31.6	4.5	30	36	1.10 (26.4)
KP8F-23-NWM	8 (2.4)	N Female	Unpainted	None	32.6	32.9	33.1	3.4	30	35	1.08 (28.3)
KP8F-23-FWM	8 (2.4)	F Flange, Female	Unpainted	None	32.6	32.9	33.1	3.4	30	35	1.08 (28.3)
KP8F-23-EWM	8 (2.4)	7/8" EIA Flange	Unpainted	None	32.6	32.9	33.1	3.4	30	35	1.08 (28.3)
KP10F-23-NWM	10 (3.0)	N Female	Unpainted	None	34.5	34.8	35.1	3.0	30	38	1.08 (28.3)
KP10F-23-FWM	10 (3.0)	F Flange, Female	Unpainted	None	34.5	34.8	35.1	3.0	30	38	1.08 (28.3)
KP10F-23-EWM	10 (3.0)	7/8" EIA Flange	Unpainted	None	34.5	34.8	35.1	3.0	30	38	1.08 (28.3)
KP13F-23-NWM	13 (4.0)	N Female	Unpainted	None	37.0	37.2	37.5	2.4	30	38	1.08 (28.3)
KP13F-23-FWM	13 (4.0)	F Flange, Female	Unpainted	None	37.0	37.2	37.5	2.4	30	38	1.08 (28.3)
KP13F-23-EWM	13 (4.0)	7/8" EIA Flange	Unpainted	None	37.0	37.2	37.5	2.4	30	38	1.08 (28.3)

\* Horizontal = 13.3 degrees

\*\* Horizontal = 8.7 degrees

\*\*\* Horizontal = 6.7 degrees

\*\*\*\* Horizontal = 3.4 degrees

**5.25 – 5.85 GHz**

Type Number	Diameter ft (m)	Polarization	Antenna Input	Antenna Color	Radome	Gain, dBi			Beamwidth Degrees	Cross Pol. Disc., dB	F/B Ratio dB	VSWR Max. (R.L., dB)
						Low	Mid-Band	Top				
<b>Standard Antennas – Unpressurized</b>												
P2F-52-N7A	2 (0.6)	Single	N Female	Gray	None	29.0	29.4	30.1	5.4	30	41	1.5 (14.0)
P2F-52-NXA	2 (0.6)	Single	N Female	Gray	Molded	29.0	29.4	30.1	5.4	30	41	1.5 (14.0)
PX2F-52-N7A	2 (0.6)	Dual	N Female	Gray	None	29.0	29.4	30.1	5.4	30	41	1.5 (14.0)
PX2F-52-NXA	2 (0.6)	Dual	N Female	Gray	Molded	29.0	29.4	30.1	5.4	30	41	1.5 (14.0)
P3F-52-N7A	3 (1.0)	Single	N Female	Gray	None	33.4	33.4	33.5	3.8	30	42	1.5 (14.0)
P3F-52-NXA	3 (1.0)	Single	N Female	Gray	Molded	33.4	33.4	33.5	3.8	30	42	1.5 (14.0)
PX3F-52-N7A	3 (1.0)	Dual	N Female	Gray	None	33.4	33.4	33.5	3.8	30	42	1.5 (14.0)
PX3F-52-NXA	3 (1.0)	Dual	N Female	Gray	Molded	33.4	33.4	33.5	3.8	30	42	1.5 (14.0)
P4F-52-N7A	4 (1.2)	Single	N Female	Gray	None	34.5	34.9	35.3	3.0	30	52	1.5 (14.0)
P4F-52-NXA	4 (1.2)	Single	N Female	Gray	Molded	34.5	34.9	35.3	3.0	30	52	1.5 (14.0)
PX4F-52-N7A	4 (1.2)	Dual	N Female	Gray	None	34.5	34.9	35.3	3.0	30	52	1.5 (14.0)
PX4F-52-NXA	4 (1.2)	Dual	N Female	Gray	Molded	34.5	34.9	35.3	3.0	30	52	1.5 (14.0)
P6F-52-N7A	6 (1.8)	Single	N Female	Gray	None	37.0	37.6	38.1	1.8	30	49	1.5 (14.0)
P6F-52-NXA	6 (1.8)	Single	N Female	Gray	Molded	37.0	37.6	38.1	1.8	30	49	1.5 (14.0)
PX6F-52-N7A	6 (1.8)	Dual	N Female	Gray	None	37.0	37.6	38.1	1.8	30	49	1.5 (14.0)
PX6F-52-NXA	6 (1.8)	Dual	N Female	Gray	Molded	37.0	37.6	38.1	1.8	30	49	1.5 (14.0)
<b>High Performance Antennas – Unpressurized</b>												
HP2F-52-NPA	2 (0.6)	Single	N Female	Gray	White Molded	28.6	29	29.7	5.4	30	50	1.5 (14.0)
HPX2F-52-NPA	2 (0.6)	Dual	N Female	Gray	White Molded	28.6	29	29.7	5.4	30	50	1.5 (14.0)
HP3F-52-NPA	3 (1.0)	Single	N Female	Gray	White Molded	33	33	33.1	3.8	30	53	1.5 (14.0)
HPX3F-52-NPA	3 (1.0)	Dual	N Female	Gray	White Molded	33	33	33.1	3.8	30	53	1.5 (14.0)
HP4F-52-NPA	4 (1.2)	Single	N Female	Gray	White Molded	34.1	34.5	34.9	3	30	58	1.5 (14.0)
HPX4F-52-NPA	4 (1.2)	Dual	N Female	Gray	White Molded	34.1	34.5	34.9	3	30	58	1.5 (14.0)
HP6F-52-NPA	6 (1.8)	Single	N Female	Gray	White Molded	36.6	37.2	37.7	1.8	30	56	1.5 (14.0)
HPX6F-52-NPA	6 (1.8)	Dual	N Female	Gray	White Molded	36.6	37.2	37.7	1.8	30	56	1.5 (14.0)
<b>Flat Panel Array Antennas – Unpressurized</b>												
FPA5250D06-N	0.5 (0.15)	Single	N Female	Gray	None		18.4		19.3	24	32	1.5 (14.0)
FPA5250D12-N	1 (0.3)	Single	N Female	Gray	None		23.6		9.6	30	38	1.5 (14.0)
FPA5250D24-N	2 (0.6)	Single	N Female	Gray	None		28.5		4.8	30	43	1.5 (14.0)



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**Catalog Search**

5.250-5.850 GHz

Show Discontinued items

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**Keyword Search**

**Family Search**

Model	Frequency	DPE	Diameter ft (m)	Input Flanges	Reg Comp	Gain Lo Mid Hi	B/W deg	XPD	F/B dB	V/S L
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<b>Directional Flat Panel - Square Configuration</b>										
<b>DFPS-52</b>	5.25-5.85GHz	5536	0.5 (0.15)	N Female	--	17.5 18.0 18.4	19.0	30.0	35.0	1 (1)

<b>Directional Flat Panel - Diamond Configuration</b>										
<b>DFPD1-52</b>	5.25-5.85GHz	5543	1 (0.3)	N Female	--	23.0 23.5 23.9	9.4	30.0	43.0	1 (1)
<b>DFPD1-52-M1</b>	5.25-5.85GHz	5543	1 (0.3)	N Female	--	23.0 23.5 23.9	9.4	30.0	43.0	1 (1)
<b>DFPD2-52</b>	5.25-5.85GHz	5562	2 (0.6)	N Female	--	27.5 28.0 28.4	4.6	30.0	46.0	1 (1)

<b>QuickFire Series Standard Parabolic - Plane Polarized</b>										
<b>QF2-52</b>	5.25-5.85GHz	5751	2(0.6)	N Female	--	28.1 28.5 29.0	5.6	28.0	35.0	1 (1)
<b>QF2-52-N</b>	5.25-5.85GHz	5751	2(0.6)	N Female	--	28.1 28.5 29.0	5.6	28.0	35.0	1 (1)
<b>QF2-52-N-RK</b>	5.25-5.85GHz	5751	2(0.6)	N Female	--	28.1 28.5 29.0	5.6	28.0	35.0	1 (1)
<b>QF2-52-PVM2</b>	5.25-5.85GHz	5751	2(0.6)	CPR137G	--	28.1 28.5 29.0	5.6	28.0	35.0	1 (1)
<b>QF2-52-PVM2-RK</b>	5.25-5.85GHz	5751	2(0.6)	CPR137G	--	28.1 28.5 29.0	5.6	28.0	35.0	1 (1)
<b>QF2.5-52</b>	5.25-5.85GHz		2.5 (0.8)	N Female	--	30.7 31.2 31.6	4.4	28.0	38.0	1 (1)
<b>QF4-52</b>	5.25-5.85GHz	5752	4 (1.2)	N Female	--	34.4 34.8 35.3	2.7	28.0	42.0	1 (1)
<b>QF4-52-N</b>	5.25-5.85GHz	5752	4 (1.2)	N Female	--	34.4 34.8 35.3	2.7	28.0	42.0	1 (1)
<b>QF4-52-N-RK</b>	5.25-5.85GHz	5752	4 (1.2)	N Female	--	34.4 34.8 35.3	2.7	28.0	42.0	1 (1)
<b>QF4-52-P</b>	5.25-5.85GHz	5752	4 (1.2)	CPR137G	--	34.4 34.8 35.3	2.7	28.0	42.0	1 (1)
<b>QF4-52-P-RK</b>	5.25-5.85GHz		4 (1.2)	CPR137G	--	34.4 34.8 35.3	2.7	28.0	42.0	1 (1)
<b>QF6-52</b>	5.25-5.85GHz	5755	6 (1.8)	N Female	--	37.4 37.8 38.3	1.9	28.0	46.0	1 (1)


















**Customer Service**

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 QF6-52-N	5.25-5.85GHz	5755	6 (1.8)	N Female	--	37.4	37.8	38.3	1.9	28.0	46.0	(1)
 QF6-52-P	5.25-5.85GHz	5755	6 (1.8)	CPR137G	--	37.4	37.8	38.3	1.9	28.0	46.0	(1)
 QF8-52	5.25-5.85GHz		8 (2.4)	N Female	--	39.4	39.8	40.3	1.6	28.0	48.0	(1)
 QF8-52-N	5.25-5.85GHz		8 (2.4)	N Female	--	39.4	39.8	40.3	1.6	28.0	48.0	(1)
 QF8-52-P	5.25-5.85GHz		8 (2.4)	CPR137G	--	39.4	39.8	40.3	1.6	28.0	48.0	(1)











### QuickFire Series Standard Parabolic - Dual Polarized

 QFD2-52	5.25-5.85GHz	5756	2(0.6)	N Female	--	28.0	28.4	28.9	5.6	28.0	35.0	(1)
 QFD2-52-N	5.25-5.85GHz	5756	2(0.6)	N Female	--	28.0	28.4	28.9	5.6	28.0	35.0	(1)
 QFD2-52-N-RK	5.25-5.85GHz	5756	2 (0.6)	N Female	--	28.0	28.4	28.9	5.6	28.0	35.0	(1)
 QFD2-52-PVM2	5.25-5.85GHz	5756	2(0.6)	CPR137G	--	28.0	28.4	28.9	5.6	28.0	35.0	(1)
 QFD2-52-PVM2-RK	5.25-5.85GHz	5756	2(0.6)	CPR137G	--	28.0	28.4	28.9	5.6	28.0	35.0	(1)
 QFD2.5-52	5.25-5.85GHz		2.5 (0.8)	N Female	--	30.6	31.1	31.5	4.4	28.0	38.0	(1)
 QFD4-52	5.25-5.85GHz	5757	4 (1.2)	N Female	--	34.3	34.7	35.2	2.7	28.0	42.0	(1)
 QFD4-52-N	5.25-5.85GHz	5757	4 (1.2)	N Female	--	34.3	34.7	35.2	2.7	28.0	42.0	(1)
 QFD4-52-N-RK	5.25-5.85GHz	5757	4 (1.2)	N Female	--	34.3	34.7	35.2	2.7	28.0	42.0	(1)
 QFD4-52-P	5.25-5.85GHz	5757	4 (1.2)	CPR137G	--	34.3	34.7	35.2	2.7	28.0	42.0	(1)
 QFD4-52-P-RK	5.25-5.85GHz	5757	4 (1.2)	CPR137G	--	34.3	34.7	35.2	2.7	28.0	42.0	(1)
 QFD6-52	5.25-5.85GHz	5758	6 (1.8)	N Female	--	37.3	37.7	38.2	1.9	28.0	46.0	(1)
 QFD6-52-N	5.25-5.85GHz	5758	6 (1.8)	N Female	--	37.3	37.7	38.2	1.9	28.0	46.0	(1)
 QFD6-52-P	5.25-5.85GHz	5758	6 (1.8)	CPR137G	--	37.3	37.7	38.2	1.9	28.0	46.0	(1)
 QFD8-52	5.25-5.85GHz		8 (2.4)	N Female	--	39.3	39.7	40.2	1.6	28.0	48.0	(1)
 QFD8-52-N	5.25-5.85GHz		8 (2.4)	N Female	--	39.3	39.7	40.2	1.6	28.0	48.0	(1)
 QFD8-52-P	5.25-5.85GHz		8 (2.4)	CPR137G	--	39.3	39.7	40.2	1.6	28.0	48.0	(1)



### QuickFire Series High-Performance - Plane Polarized

 HQF2-52	5.25-5.85GHz	5759	2(0.6)	N Female	--	27.8	28.2	28.7	5.7	28.0	43.0	(1)
 HQF2-52-N	5.25-5.85GHz	5759	2 (0.6)	N Female	--	27.8	28.2	28.7	5.7	28.0	43.0	(1)
 HQF2-52-PVM2	5.25-5.85GHz	5759	2(0.6)	CPR137G	--	27.8	28.2	28.7	5.7	28.0	43.0	(1)
 HQF2.5-52	5.25-5.85GHz		2.5 (0.8)	N Female	--	30.3	30.8	31.2	4.5	28.0	--	(1)
 HQF4-52	5.25-5.85GHz	5760	4 (1.2)	N Female	--	34.0	34.4	34.9	2.8	28.0	52.0	(1)
 HQF4-52-N	5.25-5.85GHz	5760	4 (1.2)	N Female	--	34.0	34.4	34.9	2.8	28.0	52.0	(1)
 HQF4-52-P	5.25-5.85GHz	5760	4 (1.2)	CPR137G	--	34.0	34.4	34.9	2.8	28.0	52.0	(1)
 HQF6-52	5.25-5.85GHz	5761	6 (1.8)	N Female	--	37.0	37.4	37.9	1.9	28.0	58.0	(1)





**MT-485001**

**5.15-5.875 GHz 19dBi Subscriber Antenna**



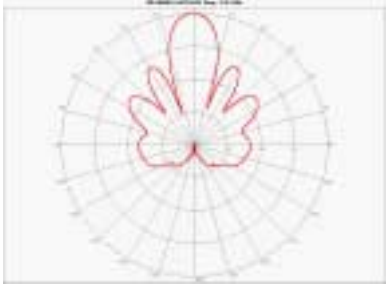
**Specifications**

MTI PART NUMBER		MT – 485001			
<b>ELECTRICAL</b>					
FREQUENCY RANGE	5.15-5.875 GHz				
GAIN	19 dBi (min)				
VSWR	1.7 : 1 (max)				
3 dB BEAMWIDTH	18° (typ)				
POLARIZATION	Linear (Vertical or Horizontal)				
SIDELOBES LEVEL	-12 dB (max)				
CROSS POLARIZATION	-23 dB				
F/B RATIO	-35 dB (max)				
INPUT IMPEDANCE	50 (ohm)				
INPUT POWER	6W (max)				
LIGHTNING PROTECTION	DC Grounded				
<b>MECHANICAL</b>					
DIMENSIONS (LxWxD)	190x190X30.5mm (max)				
WEIGHT	0.7 Kg (max)				
CONNECTOR	N-Type Female				
RADOME	Plastic				
BASE PLATE	Aluminum with chemical conversion coating				
OUTLINE DRAWING	See page 2				
MOUNTING KIT	MT-120018/A				
<b>ENVIRONMENTAL</b>					
TEST	STANDARD	DURATION	TEMPERATURE	NOTES	
LOW TEMPERATURE	IEC 68-2-1	72 h	-45°C	-	
HIGH TEMPERATURE	IEC 68-2-2	72 h	+70°C	-	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles	
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random4M3	
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M3	
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%	
WATER TIGHTNESS	IEC 529	-	-	IP67	
SOLAR RADIATION	ASTM G53	1000 h	-	-	
FLAMMABILITY	UL 94	-	-	Class HB	
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-	
ICE AND SNOW	-	-	-	25mm Radial	
WIND SPEED	SURVIVAL	-	-	220 Km/h	
	OPERATION	-	-	160 Km/h	

**MT-485001**

**5.15-5.875 GHz 19dBi Subscriber Antenna**

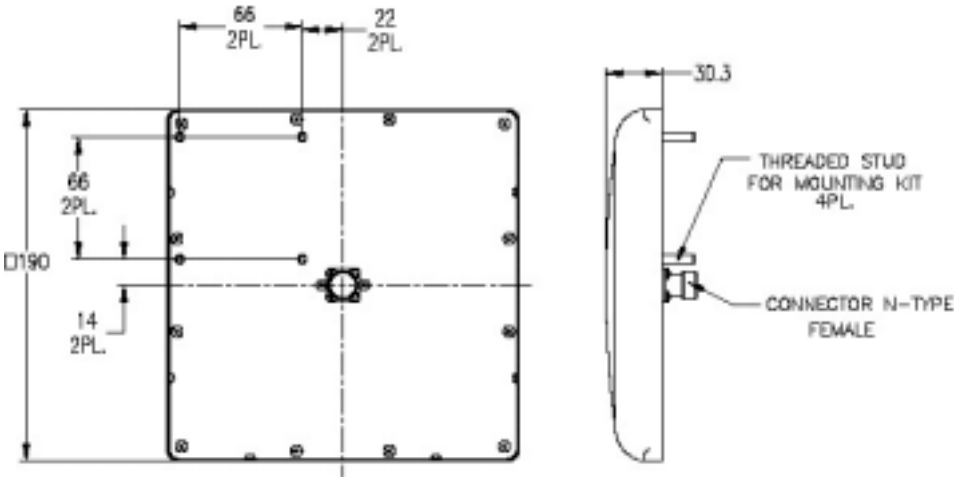
**Azimuth Radiation Pattern**  
Midband Freq. 5.35 GHz



**Elevation Radiation Pattern**  
Midband Freq. 5.35 GHz



**Dimensions [mm]**



**Existing Antenna Versions**

MT-485001	With N – Type Female connector & DC grounding

**MTI group is certified according to ISO 9001 and ISO 14001.**

**WAIVER!**  
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MT-485002

## 5.15-5.875 GHz 23dBi Subscriber Antenna



### Specifications

MTI PART NUMBER		MT – 485028/N			
<b>ELECTRICAL</b>					
FREQUENCY RANGE	5.15-5.35 GHz and 5.725-5.875 GHz				
GAIN	23 dBi				
VSWR	1.7 : 1 (max)				
3 dB BEAMWIDTH	9° (typ)				
POLARIZATION	Linear (Vertical or Horizontal)				
SIDELOBES LEVEL	ETSI EN 302-085 V1.1.2 (2001-02) Range 1, TS1-TS3				
CROSS POLARIZATION	-28 dB (max)				
F/B RATIO	-32 dB (max)				
INPUT IMPEDANCE	50 (ohm)				
INPUT POWER	6W (max)				
LIGHTNING PROTECTION	DC Grounded				
<b>MECHANICAL</b>					
DIMENSIONS (LxWxD)	305x305X15mm (max)				
WEIGHT	1.2 Kg (max)				
CONNECTOR	N-Type Female				
RADOME	Plastic				
BASE PLATE	Aluminum with chemical conversion coating				
OUTLINE DRAWING	See page 2				
MOUNTING KIT	MT-120018				
<b>ENVIRONMENTAL</b>					
TEST	STANDARD	DURATION	TEMPERATURE	NOTES	
LOW TEMPERATURE	IEC 68-2-1	72 h	-45°C	-	
HIGH TEMPERATURE	IEC 68-2-2	72 h	+70°C	-	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles	
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random4M3	
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M3	
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%	
WATER TIGHTNESS	IEC 529	-	-	IP67	
SOLAR RADIATION	ASTM G53	1000 h	-	-	
FLAMMABILITY	UL 94	-	-	Class HB	
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-	
ICE AND SNOW	-	-	-	25mm Radial	
WIND SPEED	SURVIVAL	-	-	220 Km/h	
	OPERATION	-	-	160 Km/h	

## MT-485002

### 5.15-5.875 GHz 23dBi Subscriber Antenna

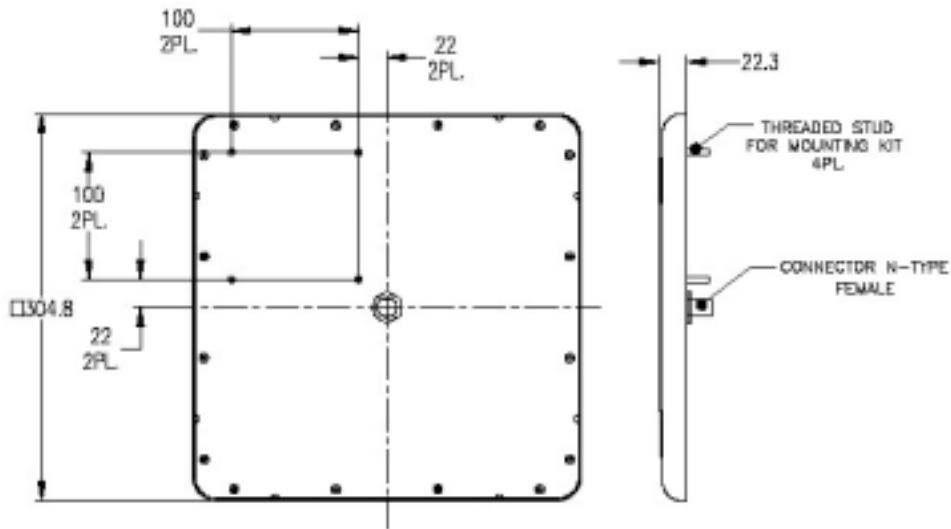
**Azimuth Radiation Pattern**  
Midband Freq. 5.35 GHz



**Elevation Radiation Pattern**  
Midband Freq. 5.35 GHz



#### Dimensions [mm]



#### Existing Antenna Versions

MT-465002	With N – Type Female connector & DC grounding

**MTI group is certified according to ISO 9001 and ISO 14001.**

**WAIVER!**

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MT-486004/N

## 5.15-5.875 GHz 26dBi Subscriber Antenna



### Specifications

MTI PART NUMBER	MT – 486004/N			
<b>ELECTRICAL</b>				
FREQUENCY RANGE	5.15-5.875 GHz			
GAIN	26 dBi (min)			
VSWR	1.5 : 1 (typ) 1.7 : 1 (max)			
3 dB BEAMWIDTH	6° (typ)			
POLARIZATION	Linear (Vertical or Horizontal)			
SIDELOBES LEVEL	ETSI EN 302 085 V1.1.2, TS1-TS5			
CROSS POLARIZATION	ETSI EN 302 085 V1.1.2, TS1-TS5 -20dB (max)			
F/B RATIO	ETSI EN 302 085 V1.1.2, TS1-TS5 -30dB (max)			
INPUT IMPEDANCE	50 (ohm)			
INPUT POWER	6W (max)			
LIGHTNING PROTECTION	DC Grounded			
<b>MECHANICAL</b>				
DIMENSIONS (LxWxD)	450x450X30mm (max)			
WEIGHT	3 Kg (max)			
CONNECTOR	N-Type Female			
RADOME	Plastic			
BASE PLATE	Aluminum with chemical conversion coating			
OUTLINE DRAWING	See page 2			
MOUNTING KIT	MT-120018			
<b>ENVIRONMENTAL</b>				
TEST	STANDARD	DURATION	TEMPERATURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-45°C	-
HIGH TEMPERATURE	IEC 68-2-2	72 h	+70°C	-
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random4M3
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M3
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP67
SOLAR RADIATION	ASTM G53	1000 h	-	-
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
ICE AND SNOW	-	-	-	25mm Radial
WIND SPEED	SURVIVAL	-	-	220 Km/h
	OPERATION	-	-	160 Km/h

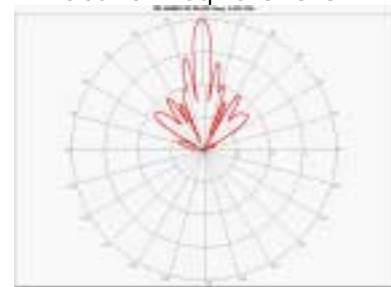
## MT-486004/N

### 5.15-5.875 GHz 26dBi Subscriber Antenna

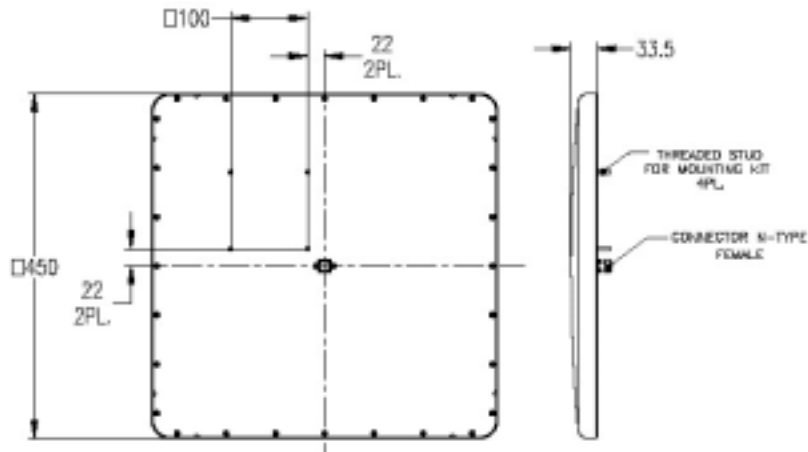
**Azimuth Radiation Pattern**  
Midband Freq. 5.625 GHz



**Elevation Radiation Pattern**  
Midband Freq. 5.625 GHz



#### Dimensions [mm]



#### Existing Antenna Versions

MT-486004/N	With N – Type Female connector & DC grounding
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**MT-486001**

**5.15-5.975 GHz 28dBi Subscriber Antenna**



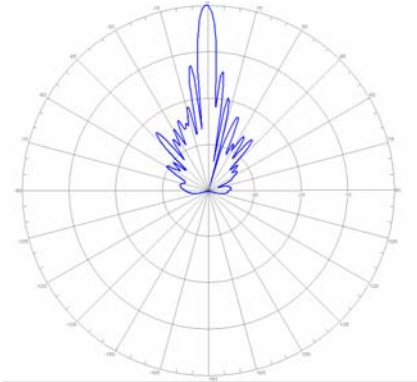
**Specifications**

MTI PART NUMBER		MT – 486001		
<b>ELECTRICAL</b>				
FREQUENCY RANGE		5.15-5.875 GHz		
GAIN		28 dBi (min)		
VSWR		1.7 : 1 (max)		
3 dB BEAMWIDTH		4.5° (typ)		
POLARIZATION		Linear (Vertical or Horizontal)		
SIDELOBES LEVEL		ETSI EN 302 085 V1.1.2, (2001-02) TS1-TS5		
CROSS POLARIZATION		ETSI EN 302 085 V1.1.2, (2001-02) TS1-TS5		
F/B RATIO		-40dB (max)		
INPUT IMPEDANCE		50 (ohm)		
INPUT POWER		6W (max)		
LIGHTNING PROTECTION		DC Grounded		
<b>MECHANICAL</b>				
DIMENSIONS (LxWxD)		600x600X50mm (max)		
WEIGHT		5 Kg (max)		
CONNECTOR		N-Type Female		
RADOME		Plastic		
BASE PLATE		Aluminum with chemical conversion coating		
OUTLINE DRAWING		See page 2		
MOUNTING KIT		MT-120019		
<b>ENVIRONMENTAL</b>				
TEST	STANDARD	DURATION	TEMPERATURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-45°C	-
HIGH TEMPERATURE	IEC 68-2-2	72 h	+70°C	-
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random4M3
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M3
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP67
SOLAR RADIATION	ASTM G53	1000 h	-	-
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
ICE AND SNOW	-	-	-	25mm Radial
WIND SPEED	SURVIVAL	-	-	220 Km/h
	OPERATION	-	-	160 Km/h

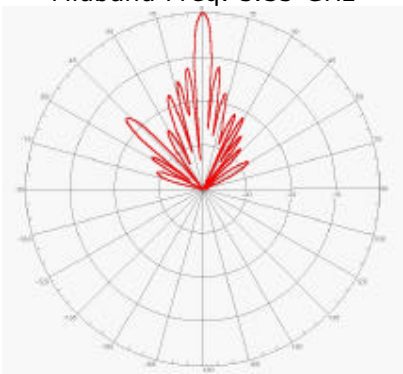
**MT-486001**

**5.15-5.975 GHz 28dBi Subscriber Antenna**

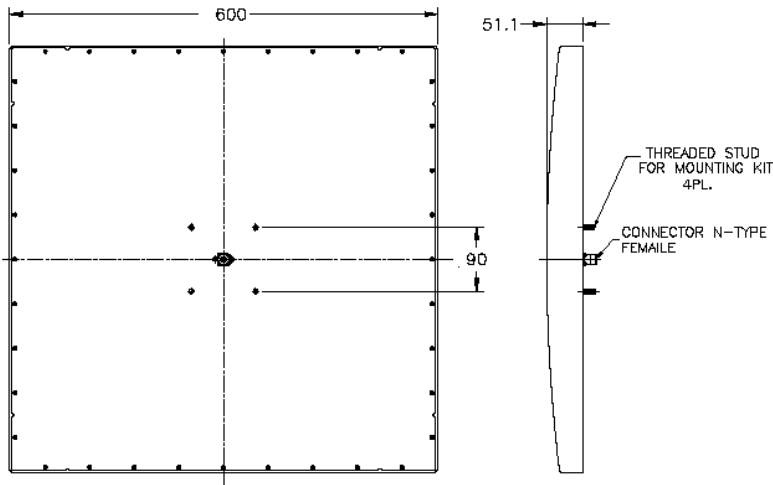
**Azimuth Radiation Pattern**  
Midband Freq. 5.35 GHz



**Elevation Radiation Pattern**  
Midband Freq. 5.35 GHz



**Dimensions [mm]**



**Existing Antenna Versions**

MT-486001	With N – Type Female connector & DC grounding
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## 15 dBi High Gain Directional Panel (Window) Antenna (5054-WA-15-STN)

Pictured: SmartAnt antenna

This window antenna is a high-gain antenna for the 5 GHz frequency band. This antenna is typically used in combination with a Subscriber Unit. The red heat-shrink tube at the antenna connector of this antenna matches the red heat-shrink tube at the MP.11a antenna connector to easily locate and distinguish the 5 GHz antenna components from their look-alikes operating at 2.4 GHz which do not have red heat-shrink tube.



### Mounting Instructions

Package contents:

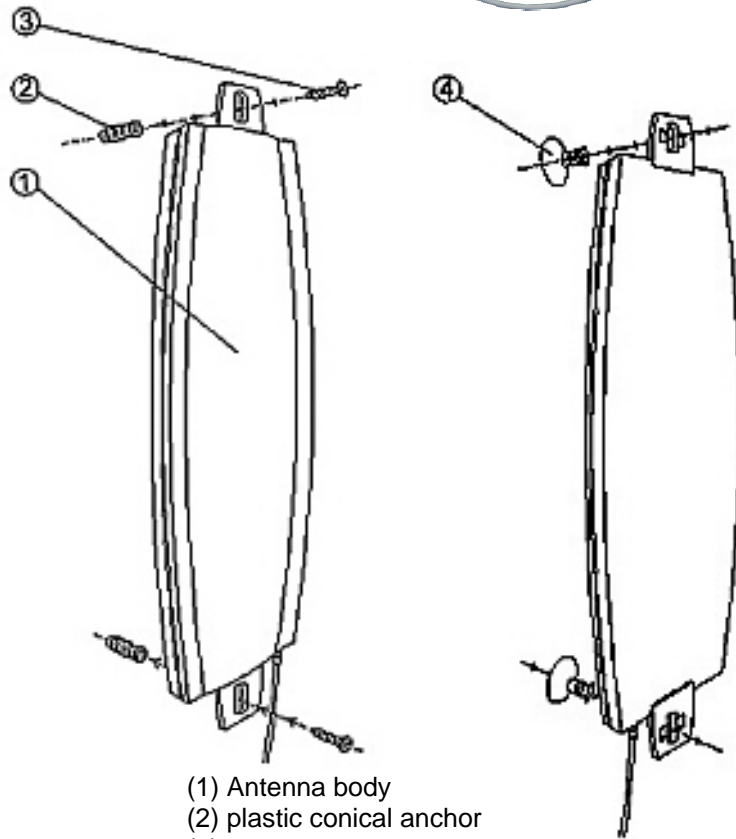
- Antenna
- Extension Cable (3m)
- Mounting Kit
- Quick Installation Guide

#### Wall Mount for Outdoor/Indoor Application

- Insert the plastic wall plug (2) into the wall
- Insert the screw (3) into the plastic wall plug through the antenna mounting hole and tighten

#### Window Suction Mount for Indoor Application

- Insert the window suction cup through the antenna mounting hole.
- Turn the suction cup one quarter to lock it into position.
- Press the window suction cup onto the window glass.



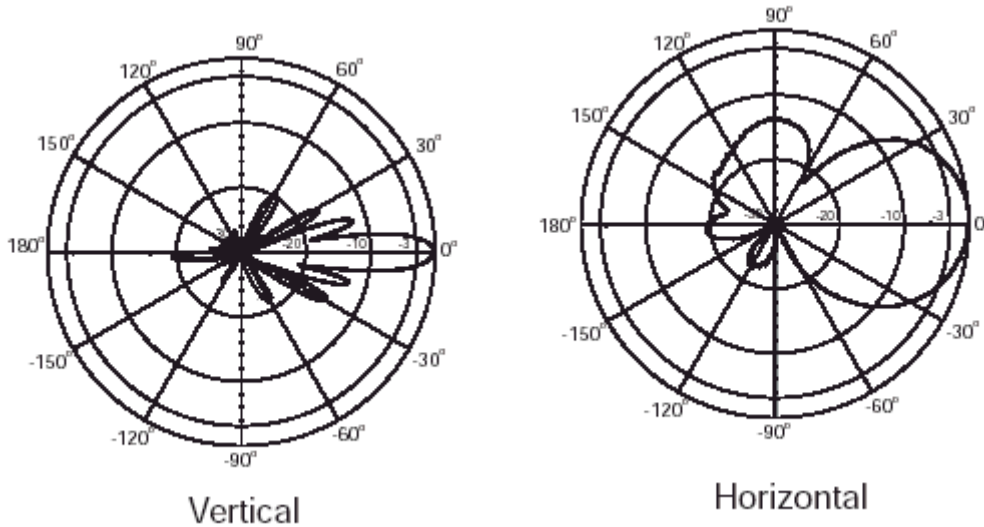
- (1) Antenna body
- (2) plastic conical anchor
- (3) screw
- (4) window suction cup

Specifications

Electrical	
Frequency range	5150 MHz – 5850 MHz
Gain*	15 dBi
VSWR	2.0 : 1 Max.
Polarization	Linear, vertical
HPBW / horizontal	45 degrees
HPBW / vertical	10 degrees
Front to back ratio	18 dB
Downtilt	0 degrees
Power handling	20 W (cw)
Impedance	50 Ohms
Connector	Standard N-female
Cable	ULA-168; 200 cm
Cable loss	2 dB
*exclusive of cable loss	

Environmental and Mechanical	
Survival wind speed	180 km/hr
Temperature	-40° C to +80° C
Humidity	95% @ 25° C
Lightning Protection	DC ground
Radome color	white
Radome material	ABS, UV resistant
Weight	0.6 kgw
Dimensions	330 x 93 x 21 mm

Pattern



# GRID AND FLAT PANEL LOW PROFILE ANTENNAS: DIAMETERS, WEIGHTS AND ELECTRICAL SPECIFICATIONS

## GRID PARABOLIC ANTENNAS, G-SERIES

### ANTENNA DIAMETERS AND WEIGHTS:

3 ft	(0.9m) - 25 lbs. (11.3 kg)
4 ft	(1.2m) - 35 lbs. (15.8 kg)
6 ft	(1.8m) - 80 lbs. (36.0 kg)

### ELECTRICAL SPECIFICATIONS (typical performance)

#### 1.35-1.535 GHz & 2.4-2.7 GHz RANGES

Model Number	Frequency, GHz	Gain, dBi Mid	Beamwidth -3dB	X-Pol. Rejection, dB	F/B Ratio dB	VSWR, Max (R.L., dB)
G3-1.3NF	1.35 - 1.535	20.1	15.5	27	23	1.5:1 (14.0)
G6-1.3NF	1.35 - 1.535	25.6	8.2	30	30	1.5:1 (14.0)
G4-1.9NF	1.70 - 2.10	25.2	8.8	30	26	1.4:1 (15.5)
G4.2.1NF	1.93 - 2.30	26.0	8.9	30	25	1.5:1 (14.0)
G6-2.1NF	1.93 - 2.30	29.1	5.8	30	28	1.5:1 (14.0)
G3-2.4NF	2.4 - 2.7	24.5	9.2	25	28	1.5:1 (14.0)
G4-2.4NF	2.4 - 2.7	27.0	7.1	25	30	1.5:1 (14.0)
G6-2.4NF	2.4 - 2.7	30.3	4.6	25	32	1.5:1 (14.0)

All specifications subject to change without notice

## XCELARATOR® FLAT PANEL ANTENNAS, FP-SERIES

### ANTENNA DIAMETERS AND WEIGHTS:

FP.5	0.5 ft (0.15m) - 3 lbs. (1.4 kg)
FP1	1.0 ft (0.3m) - 5 lbs. (2.3 kg)
FP2	2.0 ft (0.6m) - 10 lbs. (4.5 kg)

### ELECTRICAL SPECIFICATIONS (typical performance)

#### 3.4-3.7 GHz RANGE

Model Number	Frequency, GHz	Gain dBi (nominal)	Beamwidth ° -3dB	X-Pol. Rejection, dB	F/B Ratio dB	VSWR, Max (R.L., dB)
FP1-3-18*	3.4 - 3.7	18.0	20	25	30	1.5:1 (14.0)

\*Consult factory for availability

## 5.25-5.85 GHz RANGE XCELARATOR® SERIES

Model Number	Frequency, GHz	Polarization	Gain dBi (nominal)	Beamwidth ° -3dB	X-Pol. Rejection, dB	F/B Ratio dB	VSWR, Max (R.L., dB)
FP.5-5-18	5.15 - 5.85	Single	18.0	20	25	30	1.4:1 (15.5)
FP1-5-24	5.15 - 5.85	Single	24.0	10	30	40	1.4:1 (15.5)
FP2-5-28	5.15 - 5.85	Single	28.0	4.5	30	40	1.4:1 (15.5)
FPD.5-5-18	5.75 - 5.85	Dual	18.0	20	20	30	1.5:1 (14.0)

All specifications subject to change without notice.

# STANDARD PARABOLIC ANTENNAS: DIAMETERS, WEIGHTS AND ELECTRICAL SPECIFICATIONS

## STANDARD PARABOLIC ANTENNAS, SP SERIES - PLANE POLARIZED

### ANTENNA DIAMETERS AND WEIGHTS:

1 ft	(0.3m)	- 15 lbs. (6.8 kg)
2 ft	(0.6m)	- 22 lbs. (9.9 kg)
3 ft	(0.9m)	- 35 lbs. (15.8 kg)
4 ft	(1.2m)	- 60 lbs. (27.0 kg)
6 ft	(1.8m)	- 90 lbs. (40.5 kg)
8 ft	(2.4m)	- 250 lbs. (112.5 kg)

### ELECTRICAL SPECIFICATIONS (typical performance)

Model Number	Frequency, GHz	Polarization	Gain dBi (nominal)	Beamwidth -3dB	X-Pol. Rejection, dB	F/B Ratio dB	VSWR, Max (R.L., dB)
<b>1.3 - 1.5 GHz Range</b>							
SP2-1.3	1.35 - 1.535	Plane	16.8	25.0	20	28	1.5:1 (14.0)
SP3-1.3	1.35 - 1.535	Plane	20.5	15.4	30	30	1.5:1 (14.0)
SP4-1.3	1.35 - 1.535	Plane	22.8	11.5	30	34	1.5:1 (14.0)
SP6-1.3	1.35 - 1.535	Plane	26.4	7.8	30	38	1.5:1 (14.0)
SP8-1.3	1.35 - 1.535	Plane	29.2	5.7	30	40	1.5:1 (14.0)
<b>2.4 - 2.7 GHz Range</b>							
SP1-2.4	2.40 - 2.50	Plane	14.0	28.0	17	25	1.5:1 (14.0)
SP2-2.4	2.40 - 2.70	Plane	21.3	14.0	28	28	1.5:1 (14.0)
SP3-2.4	2.40 - 2.70	Plane	24.3	9.5	30	30	1.5:1 (14.0)
SP4-2.4	2.40 - 2.70	Plane	27.2	7.3	30	34	1.5:1 (14.0)
SP6-2.4	2.40 - 2.70	Plane	30.3	4.8	30	38	1.5:1 (14.0)
SP8-2.4	2.40 - 2.70	Plane	33.2	3.6	30	42	1.5:1 (14.0)
<b>3.4 - 3.6 GHz Range</b>							
SP2-3.5	3.4 - 3.6	Plane	24.2	10.0	28	32	1.5:1 (14.0)
SP3-3.5	3.4 - 3.6	Plane	27.7	8.0	30	34	1.5:1 (14.0)
SP4-3.5	3.4 - 3.6	Plane	30.2	5.0	30	38	1.5:1 (14.0)
SP6-3.5	3.4 - 3.6	Plane	33.8	3.3	30	40	1.5:1 (14.0)
SP8-3.5	3.4 - 3.6	Plane	36.3	2.5	30	43	1.5:1 (14.0)
<b>4.4 - 5.0 GHz Range</b>							
SP1-4.7	4.4 - 5.0	Plane	21.2	13.1	20	28	1.5:1 (14.0)
SP2-4.7	4.4 - 5.0	Plane	26.6	7.1	28	34	1.5:1 (14.0)
SP3-4.7	4.4 - 5.0	Plane	30.0	4.7	30	37	1.5:1 (14.0)
SP4-4.7	4.4 - 5.0	Plane	32.6	3.6	30	40	1.5:1 (14.0)
SP6-4.7	4.4 - 5.0	Plane	35.6	2.6	30	43	1.5:1 (14.0)
SP8-4.7	4.4 - 5.0	Plane	39.0	1.8	30	46	1.5:1 (14.0)
<b>5.25 - 5.85 GHz Range</b>							
SP1-5.2	5.25 - 5.85	Plane	22.5	11.1	17	30	1.5:1 (14.0)
SP2-5.2	5.25 - 5.85	Plane	29.0	6.1	28	38	1.5:1 (14.0)
HP2-5.2	5.25 - 5.85	Plane	28.6	6.1	28	44	1.4:1 (15.5)
SP3-5.2	5.25 - 5.85	Plane	32.0	4.0	30	40	1.5:1 (14.0)
SP4-5.2	5.25 - 5.85	Plane	34.8	3.0	30	44	1.5:1 (14.0)
SP6-5.2	5.25 - 5.85	Plane	37.9	2.0	30	46	1.5:1 (14.0)
SP8-5.2	5.25 - 5.85	Plane	40.0	1.5	30	52	1.5:1 (14.0)
SP8-3.5	3.60 - 3.80	Plane	36.7	2.4	30	43	1.5:1 (14.0)

SP1 Antennas include radome



## Antenna Input<sup>1</sup> – N Female

Model Number	Diameter ft (m)	3 dB-BW (deg)	Gain (dBi)			F/B Ratio (dB)	XPD (dB)	IPI (dB)	VSWR/ R L (dB)	Fine Adjustment		Windspeed km/h (mph)	Weight kg (lb)	FCC Standard	ETSI Standard
			Low	Mid	High					Az (deg)	Elev (deg)				
<b>SlimLine Standard Performance, Non-Pressurized, Single Polarized</b>															
SPF2-52A	2 (0.6)	6.2	27.4	27.9	28.4	34	25	1.50 / 13.98	± 5	± 15	200 (125)	10 (22)	-		
SPF3-52A	3 (0.9)	4.2	30.9	31.4	31.9	38	25	1.50 / 13.98	± 5	± 15	200 (125)	16 (35.2)	-		
SPF4-52A	4 (1.2)	3.1	33.4	33.9	34.4	40	28	1.50 / 13.98	± 5	± 10	200 (125)	24 (52.8)	-		
SPF6-52A	6 (1.8)	2.1	37.0	37.4	37.9	44	30	1.50 / 13.98	± 5	± 5	200 (125)	70 (154)	-		
<b>SlimLine High Performance, Non-Pressurized, Single Polarized</b>															
SDF4-52A	4 (1.2)	3.1	33.4	33.9	34.4	56	28	1.50 / 14.0	± 5	± 5	200 (125)	24 (52.8)	-		
SDF6-52A	6 (1.8)	2.1	37.0	37.4	37.9	59	30	1.50 / 14.0	± 5	± 5	200 (125)	70 (154)	-		

<sup>1</sup> To specify antenna input at the time of order, insert the appropriate antenna input code, from page 398, after the revision letter in the model number. Other antenna options are also listed on page 397.



Flat Panel Antenna, Single Polarized, 0.5 ft, 19 dBi

**Product Description**

Radio Frequency Systems' new flat panel antennas are especially designed to serve license-free ISM, Spread Spectrum and UNII band applications in 2.4 GHz and 5.2-5.8 GHz.

Because of their new, simpler, lightweight construction, these antennas meet the need for an aesthetically pleasing antenna with superior pattern characteristics. New flat panel antennas are lower in profile and weigh significantly less, for easier handling, reduced tower loading and lower shipping cost, and are an attractive solution for both point to point and point to multi point applications.

Ideal for point-to-point and point-to-multipoint applications, these new antennas have been rigorously tested to meet extremely stringent environmental specifications for safe and reliable long-term operation. Their cost effective design translates into an outstanding value for the user.



**Technical Features**

Product Type	Broadband Wireless Antennas, Point to point antennas
Frequency, GHz	5.15 - 5.35 & 5.725 - 5.875
Profile	Flat Panel
Performance	Standard
Polarization	Single
3dB beamwidth, (degrees)	18
Antenna Input	N Female
Mid Band Gain, dBi	19
F/B Ratio, dB	35
XPD, dB	23
Max VSWR / R L, dB	1.5/14 , 1.7/12 for 5.725-5.85 GHz
Azimuth Adjustment, degrees	360
Radome	Included
Radome Material	Plastic
Antenna color	white
Mounting Pipe Diameter minimum, mm (in)	50 (2)
Mounting Pipe Diameter maximum, mm (in)	75 (3)

All information contained in the present datasheet is subject to confirmation at time of ordering.



**Flat Panel Antenna, Single Polarized, 0.5 ft, 19 dBi**

Width x Height x Depth, mm (in)	190 x 190 x 30.5 (7.5 x 7.5 x 1.2)
Approximate Weight, kg (lb)	0.5 (1)

All information contained in the present datasheet is subject to confirmation at time of ordering.



**Flat Panel Antenna, Single Polarized, 1 ft, 23 dBi**

**Product Description**

Radio Frequency Systems' new flat panel antennas are especially designed to serve license-free ISM, Spread Spectrum and UNII band applications in 2.4 GHz and 5.2-5.8 GHz.

Because of their new, simpler, lightweight construction, these antennas meet the need for an aesthetically pleasing antenna with superior pattern characteristics. New flat panel antennas are lower in profile and weigh significantly less, for easier handling, reduced tower loading and lower shipping cost, and are an attractive solution for both point to point and point to multi point applications.

Ideal for point-to-point and point-to-multipoint applications, these new antennas have been rigorously tested to meet extremely stringent environmental specifications for safe and reliable long-term operation. Their cost effective design translates into an outstanding value for the user.



**Technical Features**

Product Type	Broadband Wireless Antennas, Point to point antennas
Frequency, GHz	5.15 - 5.35 & 5.725 - 5.875
Profile	Flat Panel
Performance	Standard
Polarization	Single
3dB beamwidth, (degrees)	9
Antenna Input	N Female
Mid Band Gain, dBi	23
F/B Ratio, dB	35
XPD, dB	28
Max VSWR / R L, dB	1.5/14 , 1.7/12 for 5.725-5.85 GHz
ETSI Standard	EN 302085 V1.1.2
Azimuth Adjustment, degrees	360
Radome	Included
Radome Material	Plastic
Antenna color	white
Mounting Pipe Diameter minimum, mm (in)	50 (2)

All information contained in the present datasheet is subject to confirmation at time of ordering.

**Flat Panel Antenna, Single Polarized, 1 ft, 23 dBi**

Mounting Pipe Diameter maximum, mm (in)	75 (3)
Width x Height x Depth, mm (in)	305 x 305 x 25 (12 x 12 x 1)
Approximate Weight, kg (lb)	1.2 (2.6)

All information contained in the present datasheet is subject to confirmation at time of ordering.



**Flat Panel Antenna, Single Polarized, 2 ft, 28 dBi**

**Product Description**

Radio Frequency Systems' new flat panel antennas are especially designed to serve license-free ISM, Spread Spectrum and UNII band applications in 2.4 GHz and 5.2-5.8 GHz.

Because of their new, simpler, lightweight construction, these antennas meet the need for an aesthetically pleasing antenna with superior pattern characteristics. New flat panel antennas are lower in profile and weigh significantly less, for easier handling, reduced tower loading and lower shipping cost, and are an attractive solution for both point to point and point to multi point applications.

Ideal for point-to-point and point-to-multipoint applications, these new antennas have been rigorously tested to meet extremely stringent environmental specifications for safe and reliable long-term operation. Their cost effective design translates into an outstanding value for the user.



**Technical Features**

Product Type	Broadband Wireless Antennas, Point to point antennas
Frequency, GHz	5.15 - 5.35 & 5.725 - 5.875
Profile	Flat Panel
Performance	Standard
Polarization	Single
3dB beamwidth, (degrees)	4.5
Antenna Input	N Female
Mid Band Gain, dBi	28
F/B Ratio, dB	45
XPD, dB	28
Max VSWR / R L, dB	1.5/14 , 1.7/12 for 5.725-5.85 GHz
ETSI Standard	EN 302085 V1.1.2
Elevation Adjustment, degrees	-10
Azimuth Adjustment, degrees	360
Radome	Included
Radome Material	Plastic
Antenna color	white

All information contained in the present datasheet is subject to confirmation at time of ordering.

**Flat Panel Antenna, Single Polarized, 2 ft, 28 dBi**

Mounting Pipe Diameter minimum, mm (in)	68 (2-3/4")
Mounting Pipe Diameter maximum, mm (in)	100 (4)
Width x Height x Depth, mm (in)	600 x 600 x 35 (23.6 x 23.6 x 1.4)
Approximate Weight, kg (lb)	5 (11)

All information contained in the present datasheet is subject to confirmation at time of ordering.